

College of Letters and Sciences B.S. Degree Requirements For Engineering With a Mathematics Minor

1) Communications & Calculations Skills (12 units or waivers)

- a) ___ ENGLISH 101
- b) ___ ENGLISH 102
or ___ ENGLISH 105 Freshmen Honors
(replaces both 101 and 102)
- c) ___ SPEECH 110
- d) ___ MATH 140 or 141

2) B.S. Degree Requirements (32 units)

a) Quantitative and Technical Reasoning (7-11 units)

- (1) ___ A 4-5 unit laboratory science designated *GL*
- (2) ___ 3 – 6 units of science, math or computer science courses designated *GL* or *GM* from at least 1 subject area other than the laboratory science course used in Area 2.a.1 (Astronomy, Biology, Chemistry, Geology, Computer Science, Physical Geography, Math Physics)

b) Cultural Heritage (6 units)

- 1) ___ GENED 110
- 2) ___ GENED 390

c) Communities (6 units)

- 1) ___ GENED 130
- 2) ___ GENED 120 or 140

d) Personal Health and Well-being (1-2 units)

- 1) ___ PEGNRL 192
- 2) ___ 0-1 unit in HPRC courses designated *GP*

e) ___ Electives (7-12 units)

- 1) ___ Additional electives designated *GA*, *GE*, *GH*, *GI*, or *GS*; no more than 1 course from any one discipline may be counted in electives

3) Diversity (3 units)

- a) ___ Any diversity course listed in 2008-10 Catalog pg 19.

1) Physics (34 units)

- (1) ___ PHYSCS 180
- (2) ___ PHYSCS 181
- (3) ___ PHYSCS 221
- (4) ___ PHYSCS 305
- (5) ___ PHYSCS 310
- (6) ___ PHYSCS 324
- (7) ___ PHYSCS 330
- (8) ___ PHYSCS 331
- (9) ___ PHYSCS 364
- (10) ___ PHYSCS 489

a) Select 2 units of ___ PHYSCS 190

b) Select ___ PHYSCS 344 or ___ PHYSCS 360

c) ___ Departmental Exit Interview

2) Major – Unique Requirement (22 units)

- 1) ___ CHEM 102
- 2) ___ CHEM 104
- 3) ___ MATH 255*
- 4) ___ MATH 355*
- 5) ___ MATH 361*
- 6) ___ COMPSCI 173

a) Writing – 3 units

- 1) ___ ENGLISH 370 OR ___ ENGLISH 372 RLS

3) Mathematics Minor (22 units)

- 1) ___ MATH 253
- 2) ___ MATH 254
- 3) ___ MATH 255*
- 4) ___ MATH 459 or 280

*These courses are also listed under the physics major requirements